TekArt Learning

Empower your learning with Tekart learning

MATHEMATICS REVISION 2

Upper Primary

Tekule Musa

TOPIC: FRACTIONS

Week one

Day one

Mental work

1. Find the supplement of 30^0. =
2. Find the product of 12 and 11. =
3. Divide 96 by 4. =
4. Give the lines of symmetry in a square. =
5. Subtract $^-3$ from $^+12$. =

Activity

1. Multiply; $1\frac{1}{2} \times \frac{1}{3}$.

2. Find the product of $\frac{3}{4}$ and $\frac{1}{6}$.

3. Simplify; $\frac{2}{9} \times \frac{4}{10}$.

4. Workout; $\frac{3}{4} \times \frac{1}{3}$.

5. Simplify; $5\frac{1}{5} \times 3\frac{1}{3}$.

Day two

Mental work

1. Add; 3four + 2four. =
2. Give the Hindu-Arabic numeral for CXCIV. =
3. Change 150 minutes to hours. =
4. Write the formular for finding numb of subsets. =
5. How many items are in a score**?** =

Activity

1. Divide; $\frac{3}{4} \div \frac{1}{2}$

2. Simplify; $2\frac{1}{2} \div 1\frac{1}{4}$

3. Workout; $\frac{9}{20} \div \frac{3}{5}$

4. A bag contains 5½kg of maize flour. Find the number of ½kg packets that will be obtained from the bag.

5. How many litre bottles each ¾ of a litre can a farmer obtain from a jerry can of $3\frac{1}{3}$ litres of milk**?**

Day three

Mental work

1. Find the sum of 80, 0 and 90. =
2. What is nine times four**?** =
3. Change 150 to Roman numerals. =
4. How many cam are in 5 metres**?** =
5. Solve for e; 2e + 1 = 17. =

Activity

1. Add; $\frac{1}{3} + \frac{3}{4}$.

2. Find the sum of $1\frac{1}{3}$ and $\frac{5}{6}$.

3. Add; $\frac{2}{3} + 1\frac{1}{6} + \frac{2}{9}$

4. Add; $\frac{1}{2} + \frac{3}{5} + 1\frac{1}{5}$

5. Find the sum of $\frac{2}{4}$; $2\frac{1}{6}$ and $2\frac{2}{9}$.

Day four

Mental work

1. Find the complement of 400. =
2. If a = 4 and b = 5, find the value of ab. =
3. Find the volume of a cube whose one side is 10mm. =
4. Change 500g to kg. =
5. Give the reciprocal of $\frac{4}{5}$. =

Activity

1. Subtract; $\frac{5}{6} - \frac{1}{2}$.
2. Subtract $\frac{5}{8}$ $from$ $\frac{11}{12}$.
3. What can be added to $2\frac{1}{3}$ to get $3\frac{4}{5}$**?**
4. What can be added to $1\frac{5}{6}$ to get $4\frac{1}{2}$**?**
5. Subtract $\frac{1}{3}$ $from$ $\frac{5}{8}$.

Day five

Mental work

1. Give the product of 14 and 200. =

2. Change 1:40pm to 24 hour clock system. =

3. What is $\frac{3}{7}$ of 49**?** =

4. Three angles; P, 40^0 and 80^0 are supplementary.
Find the value of P. =

5. Which hand of a clock face is shortest**?** =

Activity

Apply BODMAS correctly.

1. $\frac{2}{3}\ of\ \left(\frac{3}{4}-\frac{1}{3}\right)$

2. $\frac{5}{6}-\frac{3}{4}\div 1\frac{1}{2}$

3. $\frac{1}{3}\times\frac{1}{2}\div\frac{1}{4}\times\frac{1}{5}$

4. $\frac{1}{2}+\frac{4}{5}\ of\ \frac{5}{6}+\frac{1}{4}$

5. $\frac{3}{5}+\frac{1}{3}\div\frac{2}{3}$.

Weekend work

1. Simplify; $\frac{3}{4}\ of\ 12$.

2. Add; $\frac{2}{3} + 1\frac{1}{4}$

3. Simplify; $\frac{4}{5} \div \frac{2}{3}$.

4. Apply BODMAS correctly; $\frac{1}{3} \times \frac{1}{8} + \frac{1}{4} \div \frac{1}{7}$.

5. List all the factors of 18.

6. Find the unknown base in; $101_x = 222_{three}$.

7. Prime factorise 120 and write the prime factors in exponent form.

8. The cost of a kilogram of sugar is Shs. 5,000. How many kg can be bought from Shs. 60,000**?**

9. If x = 4, y = 5 and z = 6, evaluate; $\frac{xy}{x+z}$.

10. The area of a rectangle is 60mm2. Find its width given the length as 12mm.

11. Apply BODMAS to simplify;

(a) $\frac{7}{12} - \frac{1}{2}\ of\ \frac{1}{3}$.

(b) $\left(\frac{5}{6} - \frac{3}{4}\right) \div 1\frac{1}{2}$

(c) $\frac{1}{3} - \frac{1}{4} \div \frac{1}{2}$

12. Study the price list below and answer the questions that follow.

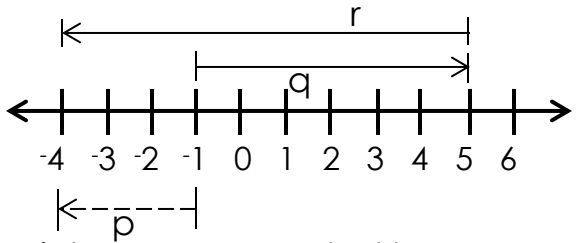
Item	Cost
An apple	Shs. 1,200
2 sweets	Shs. 600
1kg of sugar	Shs. 5,400

(a) Find the cost of five similar apples.

(b) How many similar sweets can one get from Shs. 1,500**?**

(c) Find the cost of buying 1kg 500g of sugar.

13. Study the number line below and answer the questions that follow.



(a) Write the interger represented by arrow;

(i) q (ii) p

(b) Give the additive inverse of the integer represented by arrow r.

(c) Writ the operation statement shown on the above number line.

TOPIC: FRACTIONS

Week two
Day one
Mental work

1. What is 40 times 60**?** =
2. Find the average of 50 and 100. =
3. How many months are in 11 complete years**?** =
4. Write a quarter of an hour in minutes. =
5. Solve; 2e = 36. =

Activity

1. Round off 39.984 to the nearest one decimal place.

2. Round off 43.473 to the nearest hundredths.

3. Round off 32.451 to the nearest tenths.

4. Round off 141.73681 to the nearest thousandths.

5. Round off 28.99994 to the nearest three decimal places.

6. Round off 48.05379 to the nearest ten thousandths.

Day two

Mental work

1. Multiply 32 by 7. =
2. Divide 9 by $\frac{1}{5}$. =
3. Find the total surface of a cube whose one side is 3cm. =
4. Find the complement of 1^0. =
5. What is $\frac{1}{6}$ of 48 apples**?** =

Activity

1. Add; 3.4 + 9.7.

2. Find the sum of 4.8, 6.75 and 15.579.

3. Simplify; 6.3 – 4.5

4. Subtract 9.24 from 23.5.

5. What can be added to 0.005 to get 0.7**?**

Day three

Mental work

1. Which number comes between 78 and 80**?** =

2. Round off 56 to the nearest tens. =

3. Subtract 10 from 90. =

4. How many half litre cups can be used to fill a five litre container**?** =

4. What is the total angle of a right angle**?** =

Activity

Workout

1. 0.761 x 100

2. 0.17 x 0.8

3. 6.5 x 1.2

4. 0.008 x 6.4

5. 6.5 x 1.2

Day four

Mental work

1. Which number comes just after 149**?** =

2. What is 72 times 100**?** =

3. Divide 14 by ½. =

4. Two angles; x and 43^0 form a right angle.
Find the value of x in degrees. =

5. Change 15 hours to 12 hour clock system. =

Activity

Workout;

1. 0.4 ÷ 2

2. 20.4 ÷ 0.2

3. 0.24 ÷ 0.6

4. 0.048 ÷ 0.12

5. 0.64 ÷ 0.8

Day five

Mental work

1. Add; -4 + 9. =
2. What is ½ divided by 5**?** =
3. Subtract 70 from 200. =
4. Solve; 5k = 90. =
5. How many items are in 13 scores**?** =

Activity

Simplify;

1. $\frac{0.7 \times 0.6}{0.3}$

2. $\frac{4.8 \times 0.6}{1.6}$

3. $\frac{4.5 \times 1.6}{1.5 \times 48}$

4. $\frac{3.3 + 4.2}{1 - 0.7}$

5. $\frac{0.04 \times 0.02}{0.01 \times 0.001}$

Weekend work

SECTION A

1. Round off 38.998 to the nearest two decimal places.

2. Workout; 1 – 0.0259.

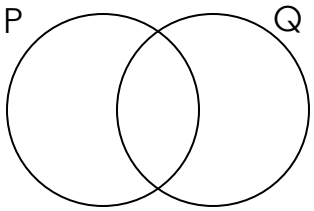
3. Multiply; 9.6 x 7.42

4. Simplify; $\frac{0.72 \times 0.2}{0.036}$

5. Apply BODMAS to workout; $\frac{1}{3} \times \frac{1}{2} \div \frac{1}{4} \times \frac{1}{5}$.

6. From a roll of 10 metres, a tailor makes shirts using 1¼m each. How many shirts does the tailor make**?**

7. On the Venn diagram below, shade PUQ.



8. A forty minutes lesson started at 11:30am. At what time in 12hour clock did it end**?**

9. With the help of a sharp pencil, ruler and pair of compasses, construct an equilateral triangle ABC of sides 4cm each.

10. Workout;

kg	g
8	3 5 0
- 3	6 4 0

SECTION B

11(a) Simplify; $\frac{0.75 \times 15}{0.5 \times 0.15}$

(b) Workout; $\frac{15 \times (0.3)^2}{0.8}$

12. The sum of four consecutive integers is 126. If the second integer is x – 2, find the value of x and the actual integers.

13. In a gathering of six hundred thirty people, $\frac{5}{9}$ are men, $\frac{2}{9}$ are women, $\frac{1}{9}$ are boys and the rest are girls.

(a) Find the actual number of males in the group.

(b) If each female was given a bottle of soda, how many sodas were given to only females**?**

TOPIC: FRACTIONS

Week three

Day one

Mental work

1. What is a third of a quarter**?** =
2. Divide 20 by a half. =
3. Add 99 to 1. =
4. Change 7½ hours to minutes. =
8. Find the square of 16. =

Activity

Change the following recurring decimals to common fractions.

1. 0.333…….
2. 0.444……..
3. 0.121212…….
4. 1.333……..
5. 2.242424…….

Day two

Mental work

1. Give the sum of 9, 10 and 20. =
2. What is 16 divided by 4**?** =
3. Subtract 200 from 1000. =
4. Find the square root of 100. =
5. How many hours are in half a day**?** =

Activity

1. Express 3:7 as a common fraction.

2. Write $\frac{1}{5}$ as a ratio.

3. Express 20 minutes as a ratio of 1 hour.

4. Increase Shs. 300 in the ratio of 2:1.

5. An article used to cost Shs. 4,000. The price decreased in a ratio of 2:5. What is the new cost of the article?

Day three

Mental work

1. Double 15. =
2. Give the Roman numeral for 140. =
3. A set has 1 element. How many subsets are in that set**?** =
4. Multiply; 12 by 11. =
5. Divide 8181 by 9. =

Activity

1. Share 180 in a ratio of 7:2.

2. Freda and Henry shared Shs. 40,000 in a ratio of 3:7 respectively. How much did each get**?**

3. Mary had sixty sweets. She shared them with a friend in a ratio of 7:5. How many sweets did each get**?**

4. Share 3,600 books between schools A and B in the ratio of 4:5.

5. A man's salary of Shs. 24,000 was shared by his two sons; Joseph and Tom n a ratio of 11:13 respectively. Find the share of each son.

Day four

Mental work

1. What is 9 times four**?** =

2. Add 11 to 99. =

3. Subtract 100 from 1000. =

4. Divide ½ by ½. =

5. Find the supplement of 49^0. =

Activity

1. The ratio of boys to girls in a class is 1:2. If there are fourteen boys, how many pupils are in the class**?**

2. A basket contains ripe and green fruits in the ratio of 7:3. If there are 21 ripe fruits, how many fruits are in the basket**?**

3. Share a number of books between Ali and Barbara in the ratio of 3:4. If Barbara gets 12 books, how many books are shared**?**

4. A farmer distributed his cows between his daughter and son in the ratio 5:5. If the son got 20 cows, how many cows did the daughter get**?**

5. The ratio of male to female teachers in a school is 2:3. If there are nine female teachers, how many male teachers are there**?**

Day five

Mental work

1. Give the sum of the first 3 prime numbers. =

2. What is $\sqrt{16}$ + $\sqrt{25}$ **?** =

3. Round off 4.996 to the nearest 1 decimal place. =

4. Change 50 minutes to hours. =

5. Write 2018 in words. =

Activity

1. Irene and Tom shared pocket money in the ratio 5:3 respectively. If Irene got SHs. 14,000 more than Tom, find the actual share of each person.

2. P. 6A and P.6B received exercise books in the ratio of 7:10 respectively. If P.6A got 6000 books les than P. 6B, how many books in total were given to the 2 classes**?**

3. In one of the leagues, Drogba and Henry scored goals in the ratio of 3:7 respectively. If Drogba scored eight less goals than Henry, how many goals in total did the two players score**?**

4. The ratio of the length to the width of a rectangle whose perimeter is 40cm is 3:2 respectively. Find the actual measurements of the rectangle.

5. The perimeter of a rectangle is 54hm. If the ratio of its width to the length is 4:5 respectively, find its actual length.

Weekend work

1. Express 9:11 as a fraction.

2. Decrease 400 in a ratio of 3:4.

3. Increase Shs. 200 in the ratio of 5:4.

4. There are 18 boys and 24 girls in a class. What is the ratio of girls to boys**?**

5. Simplify; $\frac{0.24 \times 0.3}{0.08}$

6. Prime factorise 72 and write the answer as a product of its prime factors.

7. Workout;

$$\begin{array}{r} 498 \\ \times\ 12 \\ \hline \\ \hline \end{array}$$

8. A lecture started at 11:20am and ended midday. For how long did the lecture last**?**

9. A Cheetah ran 100km in 2 hours. At what speed was it running**?**

10. Given the values; 4, 0, 6, $^{-}2$ and 8. Find their range.

11. Amos, Amina and Annet shared Shs. 630,000 in the ratio of 3:2:4 respectively. Find the share of;

(i) Annet

(ii) Amos

(iii) Amina

12(a) Simplify; $\frac{0.24 \times 0.6}{0.16}$

(b) Express 0.363636…… as a common fraction.

13(a) With the help of a sharp pencil, ruler and pair of compasses, construct a rectangle PQRS where line PQ = 6cm and line QR is 2cm less than line PQ.

(b) Measure; (i) line QS _____

(ii) angle SQR _____

TOPIC: FRACTIONS

Week four
Day one
Mental work

1. What is a half of fifty**?** =
2. Round 49 to the nearest tens. =
3. A set has 16 subsets. Find the number of elements in that set. =
4. Change 40 minutes to hours. =
5. Express 14_{five} to denary base. =

Activity

1. Two bags weigh 70g. What is the weight of 5 similar bags**?**

2. Six pens cost Shs. 5,400, how many similar pens can I buy from Shs. 81,000**?**

3. 16 men can mow a school compound in 5 days, how many men can do the same work in 20 days**?**

4. Six pupils dig a school garden in 8 days. How long will 12 pupils working at the same rate take**?**

5. Nine technicians can paint a building in 5 days. How many less days will 15 technicians working at the same rate take to do the same piece of work**?**

Day two

Mental work

1. Add the first 4 square numbers. =
2. Multiply the only prime number that is also even by 20. =
3. Write the Roman numeral for 99. =
4. Express 1200 hours in 12 hour clock system. =
5. Workout; 0.2 x 0.03. =

Activity

1. When I read $\frac{3}{5}$ of a book, I remain with four pages. How big is the book**?**

2. Patel walked $\frac{1}{9}$ of the journey and ran 24km. How long was the entire journey**?**

3. When I read $\frac{2}{7}$ of the numbers, I realize that fourteen numbers have been read. How many numbers in total am I supposed to read**?**

4. I transported ¾ of my produce by Bodaboda and 8 tonnes by a pickup. How many tonnes in total did I transport**?**

5. A tank is connected with 2 taps. Tap A can fill the tank alone in 4 minutes while tap B can fill the tank alone in 3 minutes. if both taps are opened at the same time, after how many minutes will the tank be filled with wate**r?**

Day three

Mental work

1. Give the complement of x^0. =

2. What is a quarter of 360^0**?** =

3. Three angles; p, 2p and 30^0 form a right angle.
Find the angle marked 2p. =

4. Irene was facing the East and turned 1350 anti-clockwise.
Tell her new direction. =

5. How many lines of folding symmetry does a regular decagon have**?** =

Activity

1. In a class, 82% of the pupils are present. What percentage of the class is absent**?**

2. A basket of 12 fruits has nine ripe ones. What percentage are not ripe**?**

3. Express 200g as a percentage of 2kg.

4. In a class, 10% of the pupils are absent. How many pupils are absent if there are 60 pupils**?**

5. 20% of a number is 15. What is the number**?**

Day four

Mental work

1. What is $\frac{1}{5}$ of 5**?** =

2. Subtract 1 from 100. =

3. Change 1¼ hours to seconds. =

4. Express ½ as a decimal fraction. =

5. Find the median in; 5, 0, 7. =

Activity

1. The cost of a book is Shs. 200. If a shopkeeper sold it at Shs. 250, what was the percentage gain**?**

2. The price of a radio is Shs. 43,000. A shopkeeper sold it at Shs. 41,280. Calculate the percentage loss.

3. A man bought a motor cycle at Shs. 600,000. After one year, he sold it at Shs. 480,000. Find his percentage los.

4. The cost of a litre of milk is Shs. 500. Aisha sold it at Shs. 450. Calculate the percentage loss.

5. A carpenter costed a chair at Shs. 2,400. The headmaster paid Shs. 2,400. The headmaster paid Shs. 3,120 for it. Find the carpenter's percentage profit.

Day five

Mental work

1. What is $\frac{1}{9}\ of\ \frac{3}{5}$**?** =

2. A tray of eggs holds 30 eggs. How many trays can hold 90 eggs**?** =

3. Add; 37 + 53. =

4. Solve; x – 3 = 7 =

5. What is $\frac{7}{8}$ of 64**?** =

Activity

1. Mwebe borrowed Shs. 50,000 at a rate of 15% for 2 years. How much did he pay as interest**?**

2. A woman society borrowed Shs. 150,000 from a bank at the rate of 5% per annum. How much interest will they pay after 3 years**?**

3. What interest is paid on a loan of Shs. 70,000 at a rate of 20% for 2 years**?**

4. What interest will be paid on a loan of Shs. 600,000 at a rate of 15% per annum for 1½ years**?**

5. A trader borrowed Shs. 400,000 from a bank at an interest rate of 5% per annum. What amount will the trader pay altogether after the 6 months**?**

Weekend work

SECTION A

1. Write ¾ as a percentage.

2. Increase 500 by 20%.

3. Decrease 420 books by 30%.

4. Habiba got 7 out of 10 marks in her maths exercise. Write her score as a percentage.

5. Solve for n; 2:3 = n:6.

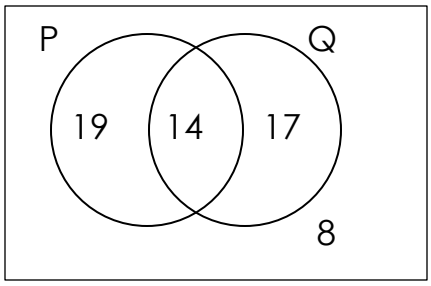
6. Express 40 minutes as a ratio of 1 hour.

7. Find the mean of 60 and 40.

8. Change $\frac{1}{8}$ to a decimal fraction.

9. Kapere drove from place A to place B at a speed of 120km/hr for 30 minutes. How far is place A from place B**?**

10. Study the Venn diagram below and find n(PUQ).



SECTION B

11. Kainerugaba borrowed Shs. 1,200,000 from a bank at 15% for 8 months.

(a) How much interest did he pay**?**

(b) What amount did he pay back after the 8 months**?**

12. When preparing thirty five litres of milk tea, one uses 20% more water than milk.

(a) Find the percentage of water used.

(b) Find the actual litres of milk used.

13(a) Akello is five years older than Akena. If their total age is 45 years, how old is Akello**?**

(b) If a = b = -3 and c = 4, evaluate;

(i) c - -a

(ii) ab + c

TOPIC: GRAPHS AND INTERPRETATION OF DATA

Day one

Mental work

1. What is $\frac{1}{2}\ of\ \frac{1}{3}$**?** =
2. Subtract 9 from -9. =
3. Change 36km/hr to m/s. =
4. How many cm are in a km**?** =
5. I have _____ pencils that make a gross. =

Activity

Below is a record of forty classmates.

10	11	12	11	12	12	11	10	12	11
12	11	12	13	12	13	12	11	14	11
12	14	14	11	12	11	13	11	13	11
12	11	12	11	15	12	11	14	11	12

(a) Represent the above information in frequency table below.

Age group	Tally	Number of pupils (frequency)

(b) Find the;

(i) modal age

(iii) modal frequency

(ii) range

(iv) average / mean

Day two

Mental work

1. What is 90 times 40**?** =

2. Divide 1212 by 6. =

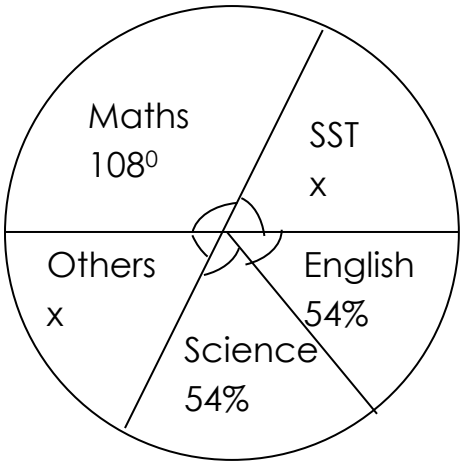
3. Find the G.C.F of 8 and 20. =

4. Find the complement of $2x^0$. =

5. Tell 1pm in the 24 hour clock. =

Activity

1. The pie chart below shows the types of books in a school library which holds 1440 books.



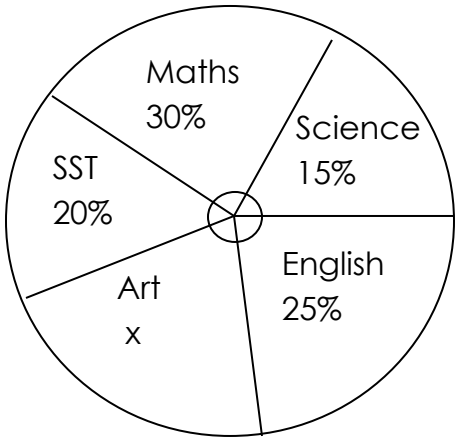
(a) Find the value of x.

(b) What fraction represents mathematics**?**

(c) Express the sector of science as a percentage.

(d) How many more maths books than SST books are there**?**

2. The pie chart shows the number of pupils who passed different subjects. There are 80 pupils in the class.



(a) Find the value of x.

(b) How many pupils passed mathematics**?**

(c) Express the portion for social studies in degrees.

(d) What fraction of the class passed Art**?**

Day three

Mental work

1. How many faces does a cube have**?** =

2. Multiply; 11 by 90. =

3. Solve; $\frac{p}{3} = 23$ =

4. What is $\frac{9}{10}$ of 2000**?** =

5. Find the supplement of 59^0. =

Activity

1. Oketcho divided his piece of land among his 4 children as follows; Andrew got $\frac{1}{9}$ of the land, James got $\frac{2}{9}$ of it, Patricia got $\frac{4}{9}$ and Mike got $\frac{2}{9}$. Use the above information and draw a pie chart.

2. A farmer earned Shs. 4,000 from the sales of beans, Shs. 7,000 from peas, Shs. 3,000 from tomatoes and Shs. 6,000 from others. Use the information to draw a pie chart of radius 3.7cm.

3. There are 5 bulls, 9 calves, 10 cows and 6 heifers on a farm. Represent the above information on a pie chart of diameter 8cm.

Day four

Mental work

1. Round off 93 to the nearest tens. =

2. Find the reciprocal of 0.9. =

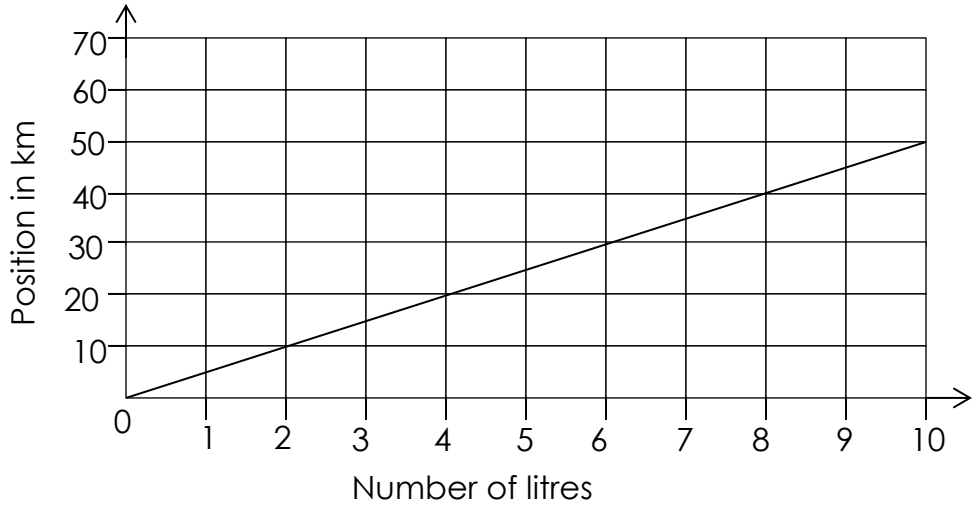
3. How many kg are in 700gm**?** =

4. What is a third of a ninth**?** =

5. Write 12^{th} in words.

Activity

1. The graph shows litres of petrol consumed by a car through a certain distance.



(a) How many kilometres does the car travel on 1 litre of petrol.

(b) What distance can the car cover on 6 litres of petrol**?**

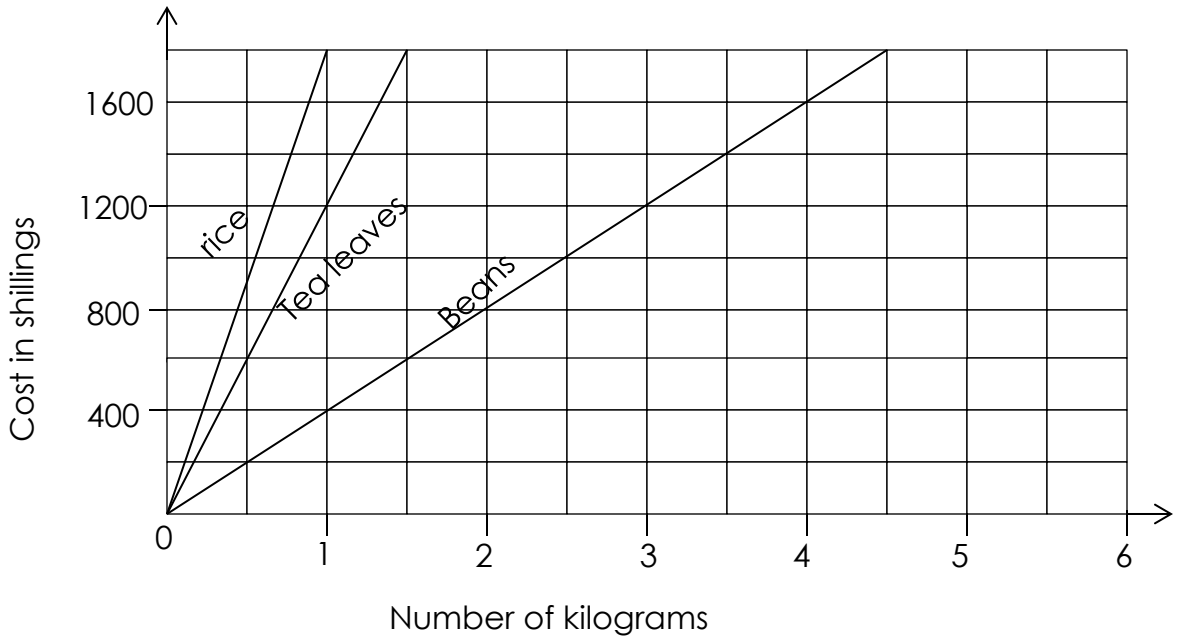
(c) How many litres of petrol does the car need to cover a distance of 45km**?**

(d) How many kilometres does the car travel on 7 litres of petrol**?**

(e) How many litres of petrol will the car use to travel a distance of 25km**?**

2. The graph below shows the cost of rice, beans and tea leaves in kg.

Study it and answer the questions that follow.



(a) What is the cost of tea leaves per kg**?**

(b) What is the cost of 1½kg of rice**?**

(c) How many kg of rice would you buy from Shs. 4,800**?**

(d) Find the money one would spend on buying 1 ½ kg of tea leaves and 5kg of rice**?**

(e) What is the cost of 4kg of beans**?**

Day five

Mental work

1. How many lines of symmetry does a square have**?** =
2. How many seconds are in 1 hour**?** =
3. Express 5 years into months**?** =
4. How many tonnes are in 20000kg**?** =
5. Write MMLXXIX in Hindu Arabic numerals. =

Activity

1. Given the list; 2, 3, 3, 4, 5, 5, 4, 4, 6.

(a) Find the mode.

(b) Find the modal frequency.

(c) Find the median.

(d) Find the mean.

(e) Find the range.

2. The table below shows litres of milk which Opio collects from his farm. Study it and answer the questions below.

Day of week	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Litres of milk	24	27	24	28	24	25	30

(a) What is the mode**?**

(b) What is the median**?**

(c) Find the mean

(d) Find the range.

(e) Find the modal frequency.

Weekend work

1. Draw tallies for 18.

2. Find the median in; 4, 4, 0, 8 and 10.

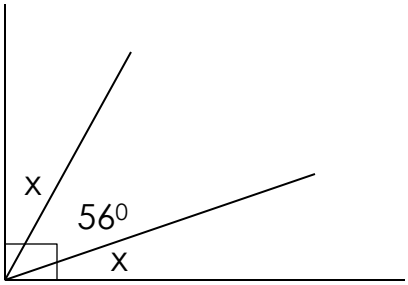
3. Find the range in; -4, 0, 8 and 12.

4. Find the mode in; 70, 80, 70 and 70.

5. In Kyegegwa, 56% of the people are Christians and 24% are Muslims. What is the percentage of other religions**?**

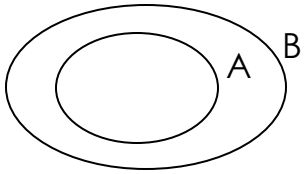
6. John collects 600 eggs from his farm everyday. The number of eggs dropped by 30%. How many eggs does he collect now**?**

7. Study the diagram below and find the value of 2x.



8. An apple costs Shs. 1,200. How many similar apples can one get from Shs. 6,000**?**

9. On the Venn diagram below, shade set A complement.



10. Solve for y; $\frac{k-3}{2} = 7$

11. During the national census, the enumerators recorded 450 peasants, 600 civil servants and 750 business operators in a certain country. Use the given information to draw a circle of diameter 6cm.

12. Kizito a businessman deposited Shs. 720,000 in a bank for 9 months at a simple interest rate of 1.2% per annum.

(a) Compute the interest given to him.

(b) How big was his account after the nine months**?**

13. Study the class time table below of St. Kizito P/S and answer questions about it.

DAY	8:30am 9:10am	9:10am 9:50am	9:50am 10:30am	10:30am 11:00am	11:00am 11:40am	11:40am 12:20pm	12:20pm 1:00pm
MON	MTC	ENG	SCI	B	SST	MTC	ENG
TUE	SST	SCI	ENG	R	MTC	SST	SCI
WED	ENG	MTC	SST	E	SCI	ENG	MTC
THUR	SCI	SST	MTC	A	ENG	SCI	SST
FRI	ASSEMBLY		ENG	K	MTC	SCI	SST

(a) How long is a break in the above school**?**

(b) How long is a double lesson**?**

(c) At what time in 24 hour clock system does second lesson after break end**?**

TOPIC: GRAPHS AND INTERPRETATION OF DATA

Day one

Mental work

1. Add 9 to 11. =
2. Subtract 200 from 100. =
3. What is ¾ of ¼**?** =
4. Change 0.2km to cm. =
5. Give the product of 70 and 70. =

Activity

1. A dice was rolled once, what is the probability that a 6 was shown on top**?**

2. A dice was rolled once, what is the probability that a 4 was shown on top**?**

3. A dice was rolled once, what is the chance that a prime number was shown on top**?**

4. A two hundred shilling coin was tossed at once, what is the chance that a tail was shown on top**?**

5. A five hundred shilling coin was tossed at once, what is the probability that a head was shown of top**?**

Day two

Mental work

1. How many hours are in a week**?** =
2. How many threes are in twenty seven**?** =
3. Write the additive inverse of $^{+}23$. =
4. Find the complement of 190. =
5. Divide 1 by ½. =

Activity

1. What is the probability that Mwange will go to America on a Tuesday**?**

2. What is the chance that Andrew will wed on a day that starts with letter 'S'**?**

3. Kagwa is planning for a surprise visit to his mother. What is the probability that he will go on a Wednesday**?**

4. The teacher promised to celebrate Sarah's birthday next week. wha tis the chance that the day will be before Friday**?**

5. What is the probability that Nalukenge will present on a day that starts with letter 'T'**?**

Day three

Mental work

1. Simplify; 8k + 2k + k =

2. Increase 49 in the ratio of 8:7. =

3. Express 1 hour as a ratio to 30 minutes. =

4. What is the reciprocal of 1¼**?** =

5. Find the number of elements in a set with 8 subsets. =

Activity

1. Mugerwa had cards;

N	I	N	E	T	E	E	N

What is the probability of picking;

(a) letter 1**?**

(b) letter E**?**

(c) letter T**?**

2. Study the following later cards.

W	E	D	N	E	S	D	A	Y

(a) What is the chance of picking letter D**?**

(b) What is the probability that the letter 'S' is picked**?**

Day four

Mental work

1. Divide 4949 by 7. =

2. Multiply; 102 by 7. =

3. Find box in; $\square \div 2 = 18$. =

4. Find the square of 0.2 =

5. Find the square root of 0.49. =

Activity

1. A teacher put three blue pens and 2 red pens in a cupboard. A pupil was asked to pick any pen at random. What is the probability of picking a red pen**?**

2. There are 3 blue pens and 4 red pens in a packet. What is the probability of picking a blue pen**?**

3. There are 8 girls and 7 boys in a group. If a teacher chooses a pupil at random to clean the blackboard, what is the chance of picking a boy**?**

4. There are 4 mangoes, 7 oranges and 9 passion fruits in a basket. What is the probability of picking a mango**?**

5. There are 5 green apples and 4 red apples in a basket. What is the probability of picking a green apple**?**

Day five

Mental work

1. Add 9 to 29. =
2. Subtract 30 from 74. =
3. What is a half of ninety degrees**?** =
4. Change 4 tonnes to kilograms. =
5. What is a third of 21000**?** =

Activity

1. The average age of 5 pupils is 7 years. What is their total age**?**

2. Find the average of 21, 23, 26 and 22.

3. The average weight of 5 pupils is 35kg. 1 more pupil whose weight is 47kg joins them. Find the average weight of the 6 pupils.

4. The average weight of 3 children is 40kg. But the average of two of them is 45kg. Find the weight of the third child.

5. The mean height of 19 girls is 115cm. find their total height.

Weekend work

1. What is the probability that Kagolo will travel on a Friday**?**

2. Mukisa tossed a coin once, what is the chance that a factor of 4 appeared on top**?**

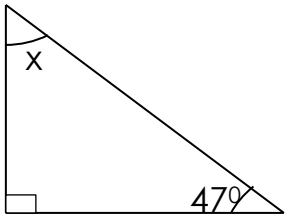
3. The average length of nine rulers is 15cm. Find their total length.

4. The mean age of four boys is 3 years. Find their total age.

5. Given that set A has 128 subsets. how many proper subsets are in set A**?**

6. Write MCMLXXVIII in Hindu Arabic numerals.

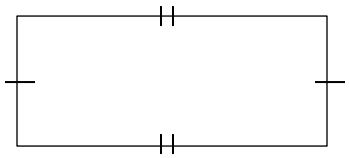
7. Fin the value of x in the figure below.



8. With the help of a sharp pencil, ruler and pair of compasses, construct a square of sides 4.5cm each.

9. Musa is facing North East. If he turns 135^0 anticlockwise. Tell his new direction he is facing.

10. Indicate and state all the line of folding symmetry on the shape below.



11(a) Workout; $9 \div 3 \times 3$.

(b) Change 141_{six} to base five.

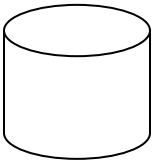
(c) Find the unknown base in; $101_w = 26_{ten}$.

12. In a group of ninety nine people, 39 visited Jinja (J), 58 visited Tororo (T), some visited both places while twenty three people visited other places.

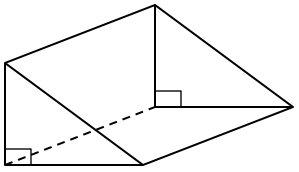
(a) With the help of a well-drawn Venn diagram, how many people visited both places**?**

(b) What is the probability of picking a person at random who did not visit Jinja.

13(a) Name the solids below.

(i) 

_____

(ii) 

_____

(b) Draw the solids below;

(i) cone

(ii) cube

TOPIC: MONEY

Day one

Mental work

1. Find the complement of 90^0. =

2. Find the supplement of 80^0. =

3. How many vertices does a cuboid have**?** =

4. Multiply; IIXIX2X3. =

5. Share 144 guavas among 12 people. How many guavas did each get**?** =

Activity

1. If bank notes are numbered consecutively from AP003782 to AP003881. How many notes are they**?**

2. Amos has bank noted numbered from XY004300 to XY004399. How much money does he have if each note is worth 1000 shillings**?**

3. Find how much money is in a bundle of Shs. 5000 bank notes if they are numbered from UH 627400 to UH 627499.

4. How much money is contained in a two thousand shilling note bundle numbered between VU 285041 and VU 285140**?**

5. How many 10,000 shilling notes are numbered between MT 301422 and MT 301437**?**

Day two

Mental work

1. How many days make 3 weeks**?** =
2. What is a quarter of a year in months**?** =
3. Change 300cm to metres**?** =
4. Find the square root of 100. =
5. What is 9 raised to the power 0**?** =

Activity

1. How much can Abdu pay for three mangoes if a heap of 3 mangoes costs Shs. 1,500**?**

2. Find the bill of buying one sugarcane if four similar sugarcanes cost Shs. 4,000.

3. Find the cost of buying 500gm of sugar if a kg costs 3,400/=.

4. How much money can Katalina pay for 1 ½ litres of milk if a litre costs Shs. 2,500**?**

5. Find the cost of buying twelve guavas at a charge of 800/= for two.

Day three

Mental work

1. Divide 1 by 2. =
2. Subtract 70 from 94. =
3. What is 70 x 80**?** =
4. What is $\sqrt{81}$**?** =
5. What is 12:30pm in 24 hour clock**?** =

Activity

1. Nabulo had Shs. 50,000 and bought items as shown in the table below.

ITEM	**QUANTITY**	**UNIT COST**	**TOTAL**
Knickers	½ DOZEN	Shs. 1,200	Shs. _____
Skirts	2	Shs. _____	Shs. 16,000
Stockings	_____ dozen	Shs. 1,500	Shs. 4,500
Blouses	2	Shs. 6,250	Shs. _____
TOTAL EXPENDITURE			**Shs.** _____

(a) Complete the table.

(b) Find Nabulo's balance

Day four
Mental work

1. Write tallies for 19. =

2. What is $(8x10^2)$**?** =

3. Give the Roman for 94. =

4. Find the sum of three consecutive even numbers. =

5. Divide 1616 by 8. =

Activity

1. If 1US dollar costs Ugshs. 3,800. How many US dollars will you get for Shs. 190,000**?**

2. Musisi had 125 pound sterling. He exchanged them at a rate of Ug. Shs 2,500 per pound. How much money in Us. Shs did he get**?**

3. Linda exchanged £370 for Ug. Shs. 925,000.
(i) What amount in Ug. Shs. is equivalent to one pound sterling**?**

(ii) What amount in pound sterlings is equivalent to Ug. Shs. 122,100**?**

4. Mugisha had to go to Kenya with Kshs. 25,000 and then to German with Euros 2,000. Find the total amount of money in Uganda shillings that Mugisha traveled with if; 1Kshs. = UgShs. 22 and 1Euro = UgShs. 1520.

Day five

Mental work

1. What is $\frac{1}{2}\ of\ 50 + \frac{1}{3}\ of\ 30$? =

2. Increase 700 by 10% =

3. Decrease 600 by 20%. =

4. Change 28 days to weeks. =

5. How many days are in the month of April**?** =

Activity

1. A tourist arrived in Uganda with £7650. He had to convert it to Ug. Shs. at a rate of 1£ = Ug. Shs. 2,500. How much money did he get**?**

2. Tamu is to travel to Germany with Euros equivalent to Uganda shillings 12,480,000. Find the amount in Euros Tamu will travel with if 1Euro = Ug. Shs. 1560.

3. Study the table below and answer questions that follow.

Currency	Rate at which bank buys	Rate at which bank sells
1 pound sterling	Ug. Shs. 4,200	Ug. Shs. 4,500
1 Kenya shilling	Ug. Shs. 19	Ug. Shs. 21

(a) If Rita had 150 pound sterlings, how much money in Ug. Shs. did she receive**?**

(b) If Nakawunde had Ug. Shs. 1,000,000, how many pound sterlings did she receive**?**

(c) If Alex had 550,000 Kenya shillings, how much money in Ug. Shs. did he receive**?**

Weekend work

1. Find the number of receipts numbered consecutively from 0140 to 0950.

2. How much money can one pay for 4 ½ litres of milk at a charge of Shs. 1,500 per half litre**?**

3. A trader charged five tomatoes for Shs. 900. How much money did Annet pay for twelve similar tomatoes**?**

4. If the exchange rate is Us. 1 dollar is Ug. Shs. 1710, how many dollars can I get in exchange for Ug. Shs. 85,500**?**

5. Amina is 19^{th} from either sides of the line. How many people are in the line**?**

6. How many packets of 200g can be used to pack 2.4kg of maize flour**?**

7. Arrange $\frac{3}{8}$, $\frac{5}{4}$, $\frac{7}{6}$ and $\frac{1}{2}$ in descending order.

8. With the help of a sharp pencil, ruler and pair of compasses, construct a line segment PQ measuring 5.7cm.

9. Tell the time 12:30pm in 24 hour clock system.

10. Subtract 0.04 from 7.

11. The mean of three consecutive numbers is 22. If the median number is x, find the value of x and the actual numbers.

12(a) Write one hundred nine thousand, forty-eight in Hindu-Arabic numerals.

(b) Given the number 9483;

(i) Expand it using place values.

(ii) Add the place value of 4 to the value of 8.

13(a) With the help of a sharp pencil, construct a rectangle PQRS where line PQ = 6cm and line QR = 4.5cm.

(b) Measure angle PQS _____

WEEK EIGHT

TOPIC: TIME, DISTANCE AND SPEED

Day one

Mental work

1. What is 4 times 13**?** =
2. Change 60 minutes to hours. =
3. Write XLVIII in Hindu Arabic numerals. =
4. Divide $\frac{1}{7}$ by $\frac{1}{7}$. =
5. Give the complement of 44^0. =

Activity

1. What duration is there between 4:00am to 3:00pm**?**

2. How long is it from 11:30pm to 1:20am**?**

3. If a bus moves at 30km/hr and covers a distance of 240km, how long does it take to cover the journey**?**

4. How long will it take a cyclist to cover a distance of 80km at a speed of 20km/hr**?**

5. A car covered a distance of 120km at an average speed of 60km/hr. How much longer does it take if it moves 40km/hr**?**

Day two

Mental work

1. Add; 11 + 9 + 28. =

2. What is 10% of 40**?** =

3. Solve; 2e = e + 8. =

4. Divide 2525 by 5. =

5. Subtract 190 from 600. =

Activity

1. A car takes 2½hrs to cover a journey at a speed of 40km/hr. Find the distance covered.

2. A car moving at 120km/hr takes 20 minutes to cover a journey. How long is the journey**?**

3. A horse moves at a speed of 12m/sec. Calculate the distance it covers in 20 minutes.

4. A bus left Kamwenge at 10:30am moving at a speed of 48km/hr. It arrived at Mbarara at 1:00pm. What is the distance between Kamwenge and Mbarara**?**

5. From 8:30pm to 1:30am, Amos covered a certain distance at 40km/hr. Calculate the distance he covered.

Day three

Mental work

1. What is $^{-}4 - {}^{-}8$**?** =
2. Change 3600 seconds to hours. =
3. What is 12:01am in 24 hour clock**?** =
4. Add the first four prime numbers. =
5. Name a five sided regular polygon. =

Activity

1. A bus travelled for 2 hours to cover a distance of 120km. At what speed in km/hr was the bus travelling**?**

2. Manuella took ½ an hour to run a distance of 2km. What was her speed**?**

3. A bus covered a distance of 180km in 2 hours. Express its speed in m/s.

4. Express 72km/hr as m/s.

5. Change 10m/sec to km/hr.

Day four

Mental work

1. Multiply 134 by 2. =

2. Express 1½ as a ratio. =

3. Express 0.1 as a percentage. =

4. Three angles; P, 40^0 and 56^0 are supplementary. Find the value of P. =

5. Divide 18 by ½. =

Activity

1. A car takes 3 hours to cover a certain journey at 60km/hr but it takes only 2 hours to return through the same distance. Calculate the average speed for the whole journey.

2. A car takes 2hrs to cover a certain distance at 60km/hr but it returns in 3hrs. Calculate the average speed of the car for the whole journey.

3. Kampala is 140km from Masaka. A car takes 3hrs from Kampala to Masaka and 2hrs coming back. Calculate the average speed for the whole journey.

4. Lira is 124km from Kitgum. A bus takes 1½hours from Kitgum to Lira and 2½hrs going back. Find its average speed.

5. Fortportal is 180km from Mbarara. A car takes 3½hrs from Fortportal to Mbarara and 1½hrs going back. What is the average speed for the whole journey**?**

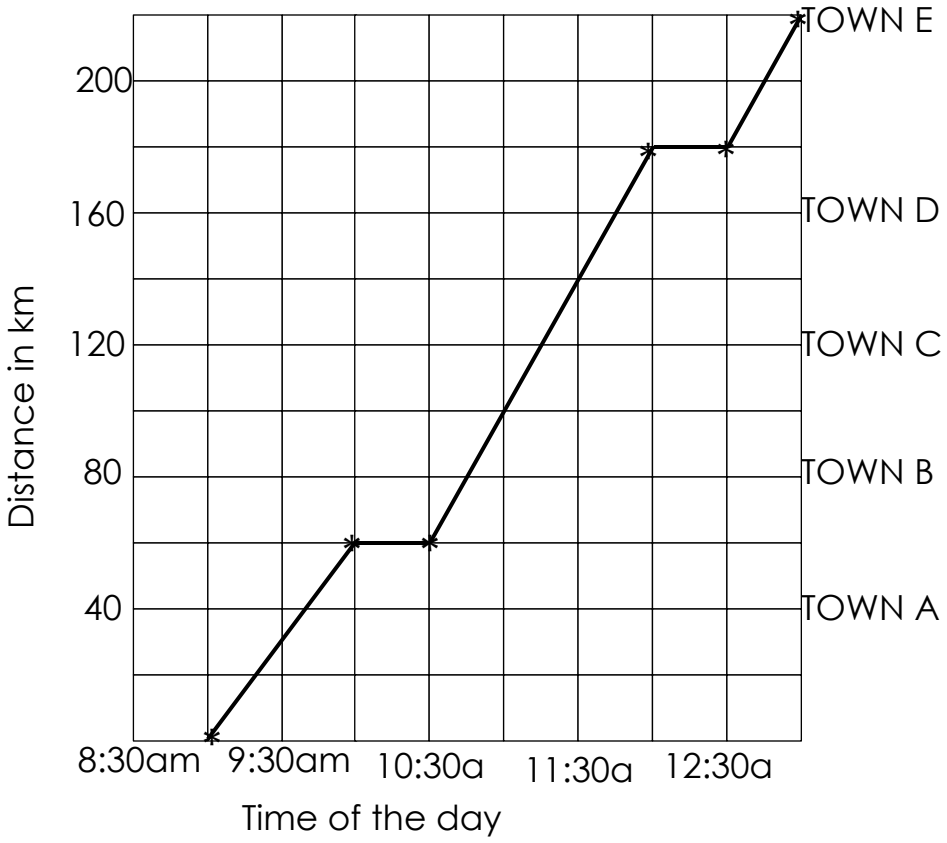
Day five

Mental work

1. Write (4x102) + (3x10-1) in short. =
2. What si ½ x ½ x 18**?** =
3. Change 3 hour to minutes. =
4. Find the complement of x + 10^0. =
5. Find the supplement of m + 20^0. =

Activity

Study the travel graph below and answer the questions about it carefully.



(a) Identify the scale on the;

(i) vertical axis (ii) horizontal axis

(b) Workout the average speed of the motorist.

(c) For how long in hours did the motorist rest**?**

(d) How far is town B from town E**?**

(e) Find the average speed of the motorist after the first rest.

(f) Find the average speed of the motorist while travelling.

Weekend work

1. Express 25m/s to km/hr.

2. At what speed can a car cover 35km in ¼ an hour**?**

3. Musa ran at a speed of of 10km/hr for 2½hours. How many metres did he run**?**

4. Kemron drove 100km from 7:00am to 9:00am. At what speed did he drive**?**

5. Change 141_{five} to binary base.

6. Expand 4392 using exponents.

7. On a well-drawn clock face, show ten minutes to a half past midday.

8. Write the tally for 18.

9. Workout; $\frac{1}{2} \div 1\frac{1}{3}$.

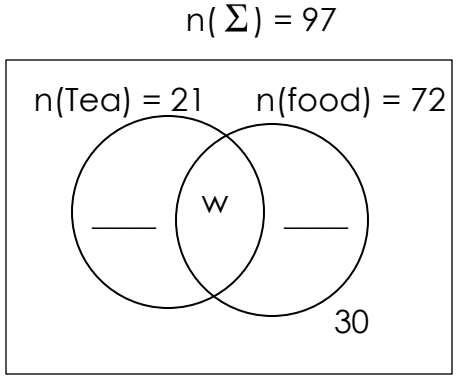
10. In a group of 40 fans, $\frac{3}{8}$ are males and the rest are females. How many more females than males are in the group**?**

11. Three bells ring at intervals of 1 hour, 40 minutes and 30 minutes.

(a) After how long will they be rung at the same time**?**

(b) If they first ring at 7:10am, what point of time will they ring together again**?**

12. Study the Venn diagram and answer the questions that follow.

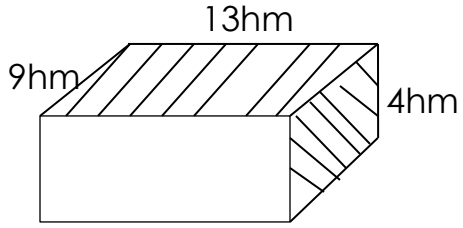


(a) Complete the above Venn diagram.

(b) Find the value of w.

(c) How many people do not take tea**?**

13. Use the cuboid below to answer questions that follow.



(a) Find the area of the shaded faces.

(b) Workout the volume of the cuboid.

(c) Calculate the total surface area of cuboid above.